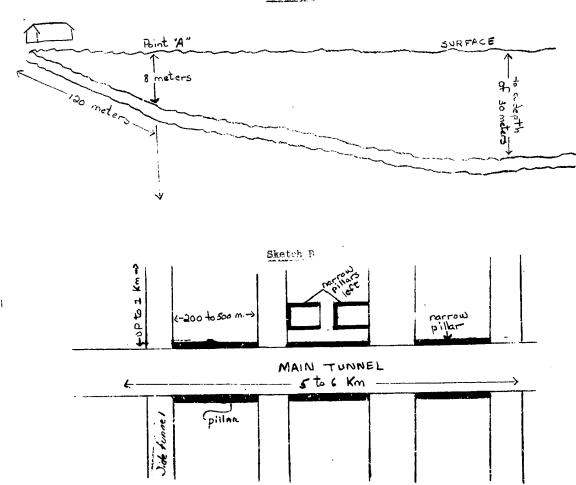
	CENTE AL INTELLIGEN	ICE AGENCY	
	INFORMATION	REPORT CD NO.	
COUNTRY	USSR	DATE DISTR. 23 Jul 1954	
SUBJECT	Kukruse, Estonia Oil Shale Mine	NO. OF PAGES 3	
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:	The director of the mine named Zhukov the tachnical management being hardled He was so	was a Russian Zhukov was a political figure, i by a civilian Soviet engineer saisted by two German prisoners of	
; ; ;	named Zhukov the technical management being handled	Zhukov was a political figure, it by a civilian Soviet engineer seisted by two German prisoners of about one thousard prisoners of as and Estonian workers, the largest there were only about 15 persons	
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5. In 1948 the Kukruse miking activities covered an area about 12 km in length and three to 3 km in width. The actual mining, which was all underground, was conducted on the following plan:

Sketch A



6. The main tunnel as well as side tunnels were between 2½ and 3½ meters in height and six to seven meters in width. The main tunnel was between five and six km in length. The side tunnels, of which there were 14, measured up to one km in length. Mumber 8 tunnel caught fire in 1947 from a carbide lamp. It burned for about one year before the cil shale fire was extinguished. In places, up to five hundred meters were completely burned out along the tunnel. It was finally put out by blocking off the tunnel and ventilating shafts and smothering the fire. Two men worked in a team in removing shale. As an example of team mining, the two men would start off a side tunnel as follows: A tunnel would be started off a side tunnel towards the next side tunnel and would be dug about half way to the next side tunnel. It would then square off and when the tunnelling was completed all shale in the square would be removed, leaving only narrow pillars for support, usually about one meter wide. Additional support was provided by shoring up the tunnel with logs. This constant robbing of the shale caused the earth to sink up to six meters over much of the surface.

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From 1945 to 1947 small deisel engines were used along the main tunnels to transport the carts. Mowever, in 1947 small, 7½ ton electric traileys were brought in (with overhead trailey system). These pulled from 20 to 25 one-ton (metric) carts each to Point "A" (Sketch A) where a 10-ton electric trailey took over and hauled the cars to the surface. Electrically operated, rubber conveyor belts were used in the working tunnels to convey the mined shale to the side tunnels where track was laid for the carts. There were eight or nine of these conveyor belts. The working arrangements were set so that one shift would blast and the other two load, these arrangements being staggered in each working area, so that all were not besting or loading at the same time. This took care of the shortage of the shortage of	
Mining equipment of the individual miner consisted of pick, shovel and carbide lamp. In 1946 a shipment of drills, cutters, lathes and other tools was received. manufactured dynamite was used from 1945 to 1947, after which used dynamite from Germany and the USSR. Spare parts for machines were very scarce. Such as did receive were procured from numerous, fiffer points in the USSR. The mine was ventilated by fans and air shalls are was no gas present in the mine. The powder smell and dust following blastings were easily removed. Water in the mine was a constant problem. It was usually knee deep. Although electric pumps were installed, during the Spring they were unable to handle all of the water in the mine. The accident rate was not high. From 1945 to 1948 there were 19 accidents from cave-ins.	25X1 25X1 25X1 25X1
The oil shale was not processed at the Kukruse mine but was transported to Kohtla Jarve where there was a large plant.	25X1
	25X1
my camp who was working on another detail told he was working	25X1
on a pipe line being laid from Kohtla Jarve to Leningrad.	25X1
this line was about lightness in diameter. the Soviets were	25X1
using processe oil from the area for their submarines. All of the rail-road locomotives in the area were using oil shale as fuel.	ı
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political and original prisoners were replacing the German prisoners of war being released.	
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	From 1945 to 1947 small, deisel engines were used along the main tunnels to transport the carts. Movever, in 1947 small, 7½ ton electric wrelleys were brought in (with overhead trolley system). These pulled from 20 to 25 one-ton (metric) carts each to Point "A" (Sketch A) where a 10-ton electric trolley took over and hauled the cars to the surface. Electrically operated, rubber conveyor belts were used in the working tunnels to convey the mined shale to the side tunnels where track was laid for the carts. There were eight or nine of these conveyor belts. The working arrangements were set so that one shift would blast and the other two load, these arrangements being staggered in each working area, so that all were not bisating or loading at the same time. This took care of the shortage of proveyor belts. Mining equipment of the individual miner consisted of pick, shovel and carbide lamp. In 1946 a shipment of arille, cutters, lathes and other tools was received. See manufactured dynamite was used from 1945 to 1947, after which used dynamite from Germany and the USSR. Spare parts for machines were very scarce. Such as did receive were procured from numerous, firster points in the USSR. The mine was ventilated by fans and air smalls ere was no gas present in the mine. The powder small and dust following blastings were easily removed. Water in the mine was a constant problem. It was usually knee deep. Although electric pumps were installed, during the Spring they were unable to handle all of the water in the mine. The accident rate was not high. From 1945 to 1948 there were 1, accidents from cave-ins. The oil shale was not processed at the Kukruse mine but was transported to Kohtla Jarve where there was a large mlant. The oil shale was not processed at the Kukruse mine but was transported to Kohtla Jarve where there was a large mlant. We camp who was working on another detail told he was working on a pipe line being !nid from Kohtla Jarve to Leningrad. Kukruse was In 1951 Soviet political and or minal prison

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